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ABSTRACT

5 A current switching circuit having greatly reduced charge
injection effects with the introduction of a mirror path to mirror the switch
path. The disclosed embodiment of the mirror path comprises a
complementary switch and a pulling amplifier, e.g., a pull-down amplifier
for a source current switching circuit, or a pull-up amplifier for a sink
current switch circuit. The pulling amplifier mirrors the status of an output
path of a current source, e.g., a transistor current source, such that when
the current source is switched ON or OFF, the switching process with
10 respect to the load, e.g., a load capacitor, is smooth and provides a clean
current waveform due to greatly reduced charge injection.

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